

What is claimed is:

1. A method for management and collection of impulse pay-per-view (IPPV) data in smart card enabled digital television terminals, comprising the steps of:

    sending security information from a headend controller to a smart card via the terminal;

    computing smart card authentication data based on said security information;

    polling the terminal by the headend controller to retrieve said authentication data and current IPPV data;

    validating said current IPPV data at said controller based on said authentication data; and

    sending updated IPPV data from said controller to said smart card via said terminal.

2. A method in accordance with claim 1, wherein said authentication data is derived from at least one of:

    said security information,

    said IPPV data,

    purchase record information.

3. A method in accordance with claim 1, wherein said updated IPPV data is based on said validated current IPPV data.

4. A method in accordance with claim 1, wherein said smart card is one of:

    a newly issued smart card with zero IPPV data values,

    a re-issued smart card with zero IPPV data values,

    a re-issued smart card with non-zero IPPV data values.

5. A method in accordance with claim 1, further comprising:

temporarily disabling IPPV capabilities at the terminal until updated IPPV data is received by the terminal.

6. A method in accordance with claim 1, further comprising:  
comparing the updated IPPV data to an IPPV purchase amount to determine whether to allow or disallow an IPPV purchase.
7. A method in accordance with claim 1, further comprising:  
storing said current IPPV data at said terminal.
8. A method in accordance with claim 1, further comprising:  
reporting previously stored IPPV data values from a prior smart card associated with said terminal from said terminal to said headend.
9. A method in accordance with claim 1, further comprising:  
constructing a purchase report back message at said terminal at the time of an initial IPPV purchase.
10. A method in accordance with claim 9, further comprising:  
updating said purchase report back message at the time of each subsequent IPPV purchase after said initial purchase.
11. A method in accordance with claim 10, further comprising:  
periodically polling the terminal by the headend controller to retrieve the report back message.
12. A method in accordance with claim 11, further comprising:  
overwriting said purchase report back message with a new purchase report back message at the time of a first IPPV purchase occurring after said polling.

13. A method in accordance with claim 9, further comprising:  
storing said purchase report back message at said terminal.
14. A method in accordance with claim 9, wherein said purchase report back message includes at least one of said current IPPV data, IPPV purchase data, and said authentication data.
15. A system for management and collection of impulse pay-per-view (IPPV) data, comprising:  
a headend controller;  
a smart card enabled digital television terminal in communication with said controller via a network; and  
a smart card operatively associated with said terminal;  
wherein:  
said controller sends security information to the smart card via the terminal;  
authentication data based on said security information is computed by said smart card;  
the terminal is polled by the headend controller to retrieve said authentication data and current IPPV data;  
said current IPPV data is validated by the controller based on said authentication data; and  
updated IPPV data is sent from said controller to said smart card via said terminal.
16. A system in accordance with claim 15, wherein said authentication data is derived from at least one of:

said security information,  
    said IPPV data,  
    purchase record information.

17. A system in accordance with claim 15, wherein said updated IPPV data is based on said validated current IPPV data.
18. A system in accordance with claim 15, wherein said smart card is one of:  
    a newly issued smart card with zero IPPV data values,  
    a re-issued smart card with zero IPPV data values,  
    a re-issued smart card with non-zero IPPV data values.
19. A system in accordance with claim 15, wherein:  
    temporarily disabling IPPV capabilities at the terminal until updated IPPV data is received by the terminal.
20. A system in accordance with claim 15, wherein:  
    updated IPPV data is compared to an IPPV purchase amount to determine whether to allow or disallow an IPPV purchase.
21. A system in accordance with claim 15, further comprising:  
    a storage device associated with said terminal for storing said current IPPV data.
22. A system in accordance with claim 15, wherein:  
    previously stored IPPV data values from a prior smart card associated with said terminal are reported from said terminal to said headend.
23. A system in accordance with claim 15, wherein:

a purchase report back message is constructed at said terminal at the time of an initial IPPV purchase.

24. A system in accordance with claim 23, wherein said purchase report back message is updated at the time of each subsequent IPPV purchase after said initial purchase.
25. A system in accordance with claim 24, wherein:  
the headend controller periodically polls the terminal to retrieve the report back message.
26. A system in accordance with claim 25, wherein said purchase report back message is overwritten with a new purchase report back message at the time of a first IPPV purchase occurring after said poll.
27. A system in accordance with claim 23, wherein said purchase report back message is stored at said terminal.
28. A system in accordance with claim 23, wherein said purchase report back message includes at least one of said current IPPV data, IPPV purchase data, and said authentication data.
29. A method for managing and collecting impulse pay-per-view (IPPV) data in smart card enabled digital television terminals, comprising the steps of:  
constructing a purchase report back message at a television terminal at the time of an initial IPPV purchase;  
updating said purchase report back message at the time of each subsequent IPPV purchase; and

periodically polling said terminal by a headend controller to retrieve the purchase report back message.

30. A method in accordance with claim 29, further comprising:  
overwriting said purchase report back message with a new purchase report back message at the time of a first IPPV purchase occurring after said polling.
31. A method in accordance with claim 29, further comprising:  
storing said purchase report back message at said terminal.
32. A method in accordance with claim 29, wherein said purchase report back message includes at least one of said current IPPV data, IPPV purchase data, and said authentication data.
33. A system for managing and collecting impulse pay-per-view (IPPV) data in smart card enabled digital television terminals, comprising:
  - a headend controller;
  - a smart card enabled digital television terminal in communication with said controller via a network; and
  - a smart card operatively associated with said terminal;wherein:
  - a purchase report back message is constructed at said television terminal at the time of an initial IPPV purchase;
  - said purchase report back message is updated by said terminal at the time of each subsequent IPPV purchase; and
  - said terminal is periodically polled by a headend controller to retrieve the purchase report back message.
34. A system in accordance with claim 33, wherein:

said purchase report back message is overwritten with a new purchase report back message at the time of a first IPPV purchase occurring after said polling.

35. A system in accordance with claim 33, wherein:  
said purchase report back message is stored at said terminal.
36. A system in accordance with claim 33, wherein said purchase report back message includes at least one of said current IPPV data, IPPV purchase data, and said authentication data.